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0225

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/975,059A

DATE: 02/20/2003 pib  
TIME: 15:39:04

Input Set : A:\00-713-i15 Rev seq list.txt

Output Set: N:\CRF4\02202003\I975059A.raw

```

3 <110> APPLICANT: Mirkin, Chad A.
4   Letsinger, Robert L.
5   Mucic, Robert C.
6   Storhoff, James J.
7   Elghanian, Robert
8   Taton, Thomas A.
10 <120> TITLE OF INVENTION: NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO
11   AND USES THEREFOR
13 <130> FILE REFERENCE: 00-713-i15
15 <140> CURRENT APPLICATION NUMBER: 09/975,059A
16 <141> CURRENT FILING DATE: 2001-10-11
18 <150> PRIOR APPLICATION NUMBER: 09/603,830
19 <151> PRIOR FILING DATE: 2000-06-26
21 <150> PRIOR APPLICATION NUMBER: 09/344,667
22 <151> PRIOR FILING DATE: 1999-06-25
24 <150> PRIOR APPLICATION NUMBER: 09/240,755
25 <151> PRIOR FILING DATE: 1999-01-29
27 <150> PRIOR APPLICATION NUMBER: PCT/US97/12783
28 <151> PRIOR FILING DATE: 1997-07-21
30 <150> PRIOR APPLICATION NUMBER: 60/031,809
31 <151> PRIOR FILING DATE: 1996-07-29
33 <150> PRIOR APPLICATION NUMBER: 60/200,161
34 <151> PRIOR FILING DATE: 2000-04-26
36 <160> NUMBER OF SEQ ID NOS: 64
38 <170> SOFTWARE: Microsoft Word 2000
40 <210> SEQ ID NO: 1
41 <211> LENGTH: 20
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Description of Artificial Sequence:random
47   synthetic sequence
49 <400> SEQUENCE: 1
50 aaacgactct agcgcg tata                                20
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 20
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Description of Artificial Sequence:random
60   synthetic sequence
62 <400> SEQUENCE: 2
63 atggcaacta tacgcgctag                                20

```

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```

66 <210> SEQ ID NO: 3
67 <211> LENGTH: 16
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Description of Artificial Sequence:random
73     synthetic sequence
75 <400> SEQUENCE: 3
76 ccttgagatt tccctc                                     16
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 16
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Description of Artificial Sequence:random
86     synthetic sequence
88 <400> SEQUENCE: 4
89 gagggaaatc tcaagg                                     16
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 18
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence:random
99     synthetic sequence
101 <400> SEQUENCE: 5
102 aacttgcgct aatggcga                                    18
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 26
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Description of Artificial Sequence:random
112     synthetic sequence
114 <400> SEQUENCE: 6
115 aagttgcgct ttacggctaa tggcga                         26
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 15
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence:random
125     synthetic sequence
127 <400> SEQUENCE: 7
128 tctccttccc ttttc                                     15
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 15
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence

```

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```

136 <220> FEATURE:
137 <223> OTHER INFORMATION: Description of Artificial Sequence:random
138     synthetic sequence
140 <400> SEQUENCE: 8
141 gaaaaggga ggaga 15
144 <210> SEQ ID NO: 9
145 <211> LENGTH: 15
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence:random
151     synthetic sequence
153 <400> SEQUENCE: 9
154 cttttccctt cctct 15
157 <210> SEQ ID NO: 10
158 <211> LENGTH: 28
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence:random
164     synthetic sequence
166 <400> SEQUENCE: 10
167 aaacgactct agcgcggtata gttgccat 28
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 28
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence:random
177     synthetic sequence
179 <400> SEQUENCE: 11
180 atggcaacta tacgcgctag agtcgttt 28
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 15
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence:random
190     synthetic sequence
192 <400> SEQUENCE: 12
193 cctatcgacc atgct 15
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 30
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence:random
203     synthetic sequence
205 <400> SEQUENCE: 13

```

## RAW SEQUENCE LISTING

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Input Set : A:\00-713-i15 Rev seq list.txt

Output Set: N:\CRF4\02202003\I975059A.raw

```

206 agcatgggtcg ataggaaacg actctagcgc 30
209 <210> SEQ ID NO: 14
210 <211> LENGTH: 15
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence:random
216     synthetic sequence
218 <400> SEQUENCE: 14
219 gcgctagagt cgttt 15
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 30
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence:random
229     synthetic sequence
231 <400> SEQUENCE: 15
232 agcatgggtcg ataggatggc aactatacgc 30
235 <210> SEQ ID NO: 16
236 <211> LENGTH: 24
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence:random
242     synthetic sequence
244 <400> SEQUENCE: 16
245 gtcgatagga aacgactcta gcgc 24
248 <210> SEQ ID NO: 17
249 <211> LENGTH: 30
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence:random
255     synthetic sequence
257 <400> SEQUENCE: 17
258 agcatggttg ataggaaacg actctagcgc 30
261 <210> SEQ ID NO: 18
262 <211> LENGTH: 30
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence:random
268     synthetic sequence
270 <400> SEQUENCE: 18
271 agcatgtttg ataggaaacg actctagcgc 30
274 <210> SEQ ID NO: 19
275 <211> LENGTH: 12
276 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/975,059A

TIME: 15:39:04

Input Set : A:\00-713-i15 Rev seq list.txt

Output Set: N:\CRF4\02202003\I975059A.raw

```

277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence:random
281     synthetic sequence
283 <400> SEQUENCE: 19
284 tctcaactcg ta                                     12
287 <210> SEQ ID NO: 20
288 <211> LENGTH: 12
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence:random
294     synthetic sequence
296 <400> SEQUENCE: 20
297 cgcattcagg at                                     12
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 24
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Description of Artificial Sequence:random
307     synthetic sequence
309 <400> SEQUENCE: 21
310 tacgagttga gagagtgtccc acat                       24
313 <210> SEQ ID NO: 22
314 <211> LENGTH: 24
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Description of Artificial Sequence:random
320     synthetic sequence
322 <400> SEQUENCE: 22
323 tacgagttga gaatcctgaa tgcg                       24
326 <210> SEQ ID NO: 23
327 <211> LENGTH: 24
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Description of Artificial Sequence:random
333     synthetic sequence
335 <400> SEQUENCE: 23
336 tacgagttga gaatcctgaa tgct                       24
339 <210> SEQ ID NO: 24
340 <211> LENGTH: 24
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Description of Artificial Sequence:random
346     synthetic sequence

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 02/20/2003  
PATENT APPLICATION: US/09/975,059A      TIME: 15:39:05

Input Set : A:\00-713-i15 Rev seq list.txt  
Output Set: N:\CRF4\02202003\I975059A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:57; N Pos. 8

**VERIFICATION SUMMARY**

DATE: 02/20/2003

PATENT APPLICATION: **US/09/975,059A**

TIME: 15:39:05

Input Set : **A:\00-713-i15 Rev seq list.txt**

Output Set: **N:\CRF4\02202003\I975059A.raw**

L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0